

Veld A-B

$$M_{AB} = 5020 \times 9,22^2 \times 0,125 - \frac{39225 + 27050}{2} = 20363 \text{ Kgcm}$$

de flensbreedte =

$$b = \frac{1}{3} \times 922 = 308 \text{ cm};$$

$$b = 16 \times 18 = 288 \text{ cm};$$

$$b = 8 \times 70 = 560 \text{ cm};$$

$$b = 4 \times 58 = 232 \text{ cm};$$

$$b = 302 \text{ cm};$$

de flensbreedte  $b = 232 \text{ cm}$  is de kleinste.

$$\text{de balkhoogte } h = 58 - (20 + 1,0 + 1,4) = 53,6 \text{ cm}$$

K 225 ; QR 40

$$K = 0,574 ; \quad \omega = 0,20 \text{ rad}; \quad A = 26,40 \text{ cm}^2$$

$$\text{toegepast } 5 \Phi 28 \quad A = 30,80 \text{ cm}^2$$

Steunpunt B

$$M_B = 27050 \text{ Kgcm}$$

K 225 ; QR 40

$$b = 70 \text{ cm}$$

$$h = 53,60 \text{ cm}$$

$$K = 0,272 ; \quad \omega = 0,686 ; \quad A = 25,70 \text{ cm}^2$$

$$\text{toegepast } 6 \Phi 24 \quad A = 27,12 \text{ cm}^2$$

$$T_{B_L} = 21970 \text{ Kg}$$

$$K_z = 0,885$$

$$\tau_B = \frac{21970}{53,6 \times 70 \times 0,885} = 6,62 < 7 \text{ Kg/cm}^2$$